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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,822	10/24/2005	Mark Brister	PA1187	3938
	7590 01/02/2008 VASCULAR, INC.		EXAM	INER
IP LEGAL DEI	PARTMENT		HOUSTON, I	ELIZABETH
3576 UNOCAL SANTA ROSA			ART UNIT	PAPER NUMBER
	,		3731	
			NOTIFICATION DATE	DELIVERY MODE
			01/02/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

rs.vasciplegal@medtronic.com

	Appliestion No.	Applicant(a)	
	Application No.	Applicant(s)	
Office Action Summany	10/531,822	BRISTER, MARK	
Office Action Summary	Examiner	Art Unit	
The MAN INC DATE of this communication of	Elizabeth Houston	3731	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	in the correspondence address	S
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory periorally received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a red will apply and will expire SIX (6) MONute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 01	October 2007.		
	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	rance except for formal matt	·	rits is
Disposition of Claims			
4) Claim(s) 1,3-6 and 8-25 is/are pending in the 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-6 and 8-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examin		•	
10) The drawing(s) filed on is/are: a) ac			
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •		101(1)
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the l	,	` ' ·	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stag	e
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application	

Patent and Trademark Office (TOL-326 (Rev. 08-06)

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/01/07 has been entered.
- 2. Claim 10 is objected to because of the following informalities: the limitation "spotted patterns and spotted patterns" is redundant. Appropriate correction is required.

112 Sixth Paragraph

- 3. It is presumed that applicant is invoking 35 USC 112 sixth paragraph by use of the claim language "means for applying" as stated in claim 18. As per the specification, page 9, Para [0036], it is determined that the structure specified as the means for applying is a drive and a sprayer or equivalents thereof.
- 4. It is noted that the limitations "means for providing" and "means for mixing" does not have a structure specified and therefore does not fall under the requirements of 112 6th paragraph.

Application/Control Number: 10/531,822

Art Unit: 3731

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

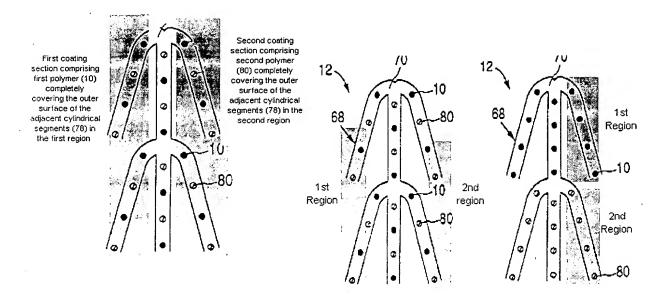
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Page 3

- 6. Claims 1, 3-6 and 8-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Castro et al (US 6,616,765).
- 7. Regarding claims 1 and 6, Castro discloses the invention substantially as claimed comprising a catheter, a balloon operably attached to the catheter, and a stent disposed on the balloon (col. 1, lines 19-27). Castro also discloses that the stent has a plurality of stent segments (78, Figs. 11A-12D; Figs. 13F-H) (Note that the depots or cavities are cylindrical and are a segment or portion of the stent.) The stent has a first and second region continuous over at least one pair of adjacent cylindrical segments (see below). A first and second coating sections with first and second polymers (10; 80) are disposed on and completely covering the outer surface of the adjacent cylindrical stent segment (78) in the first and second regions respectively (see below). The first region and second region are discrete, and the first coating section and second coating section are discrete (col. 17, line 60 col. 18, line 3).

Application/Control Number: 10/531,822

Art Unit: 3731



- 8. Regarding claims 3, 4, 8, and 9, Castro discloses that the first coating section includes a first therapeutic agent and that the second coating section includes a second therapeutic agent (col. 17, line 64 col. 18, line 2).
- 9. Regarding claims 5 and 10, Castro discloses that the first and second regions can form a striped or spotted pattern (see above).
- 10. Claims 11-25 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as being unpatentable over Castro et al (US 6,616,765).
- 11. Regarding claim 22, Castro discloses a stent having a plurality of cylindrical segments (78) having a first discrete region and a second discrete region continuous across at least one pair of the adjacent cylindrical stent segments (see figures above), a first polymer including a first therapeutic agent (10), the first polymer disposed on and

Application/Control Number: 10/531,822 Page 5

Art Unit: 3731

completely covering the outer surface of the adjacent cylindrical stent segments (78) in the discrete first region as a first coating section, and a second polymer including a second therapeutic agent (80), the second polymer disposed on and completely covering the outer surface of the adjacent cylindrical stent segments (78) in the discrete second region as a second coating section (see figures above; col. 17, line 60 – col. 18, line 3). The first region has a longitudinal length greater than the diameter of the stent in an expanded stent (since the region can extend the entire length of the stent as shown in the first two examples above). Alternatively, it would be obvious to vary the length of the stent and the diameter of the stent to result in a stent where the length is greater than the diameter. It is well known in the art that the length and diameter will need to be varied depending on where the stent is intended to be delivered.

- 12. Regarding claim 23, Castro further discloses that the first and second discrete regions are separated by a bare section (see above).
- 13. Regarding claims 24 and 25, Castro discloses the invention substantially as claimed above except for exact dimensions. However, as shown in the figures above, the location of the first and second regions and thus the dimensions of the bare section are variable. Additionally, the dimension of the bare section will change depending on whether the stent is expanded or compressed. Thus, it would have been obvious to vary the locations of the regions to meet the limitations of the claim.
- 14. Regarding claims 11 and 18, Castro discloses the invention substantially as claimed above, further disclosing mixing a first polymer and first therapeutic agent with

Page 6

Art Unit: 3731

a first solvent to form a first polymer solution (col. 11, lines 7-13), applying the first polymer solution to the first region to form a first coating section completely covering the outer surface of the adjacent cylindrical stent segments in the first region (col. 14, lines 65-67), mixing a second polymer and second therapeutic agent with a solvent to form a second polymer solution (col. 17, line 62 – col. 18, line 4), and applying the second polymer solution to the second region to form a second coating section completely covering the outer surface of the adjacent cylindrical stent segments in the second region (col. 18, lines 14-32). The first region has a longitudinal length greater than the diameter of the stent in an expanded stent (since the region can extend the entire length of the stent as shown in the first two examples above). Alternatively, it would be obvious to vary the length of the stent and the diameter of the stent to result in a stent where the length is greater than the diameter. It is well known in the art that the length and diameter will need to be varied depending on where the stent is intended to be delivered.

15. Castro fails to specifically disclose that the solvent mixed with the second polymer and second therapeutic agent is a second solvent, but teaches that it could be a second solvent (col. 11, lines 55-59; col. 12, lines 20-24). Choosing a solvent based on the polymer chosen implies that if a second polymer is used, then a second solvent will also be used. Further, Castro discloses that all other variables of the second composition are different than that of the first, so it would have been obvious to choose a second solvent when forming the second polymer solution.

Application/Control Number: 10/531,822 Page 7

Art Unit: 3731

16. Regarding claims 12 and 19, Castro further discloses the first and second polymer solutions may be applied simultaneously (col. 17, lines 61-64).

- 17. Regarding claims 13 and 20, Castro discloses curing the first and second polymer solutions (col. 9, lines 64-65).
- 18. Regarding claims 14 and 21, Castro further discloses mounting the stent in a coating fixture and spraying the first polymer solution on the first region (col. 6, lines 24-35).
- 19. Regarding claims 15-17, Castro further discloses mounting the stent in a coating fixture which is a computerized numerically controlled machine (column 7, lines 12-36), and spraying the first polymer solution on the first region by spraying, inkjet spraying, or inkjet printing (column 7, lines 42-45).

Response to Arguments

Applicant's arguments with respect to claims 1 and 3-25 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth Houston whose telephone number is 571-272-7134. The examiner can normally be reached on M-F 9:00-5:00.

Art Unit: 3731

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Todd Manahan can be reached on 571-272-4713. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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